

ORNL SITES - SUMMARY

License No.: C-03387 ORNL Score: 52
Docket No.: 040-00680
Licensee: Engelhard Industries, Inc. Review Status: Complete
(Formerly Baker and Company, Inc.)
Site Address(es): 113 Astor Street 149 Murray Street
Newark, NJ Newark, NJ
Site Contact: Tom Brown, Manager Environmental Affairs
101 Wood Avenue
Iselin, NJ 08830-00770
Telephone No.: 908-205-7265
SDMP Site: No
Related License(s): C-04558, SNM-00098, [NON ON LIST: 29-04181-01, -02, -03, -04, -05,
R-00121, C-04149, C-04871, S-04938, SNM-00715]
NRC Reviewer: John H. Lusher

Review Abstract: License No. C-03387 was issued October 12, 1956 for the possession and use of up to 500 pounds of refined source material in the form of uranium products for research and development on rolling, drawing and fabricating metals and fuel elements, and processing, purification, and recovery procedures. The license also authorized possession and use of up to 20,000 pounds of refined source material in the form of scrap or contaminated metal for recovery of source material and 500 grams of normal refined uranium for use as spectrographic samples in the determination of product purity. The license expired July 31, 1962. Materials disposition information was incomplete. There is no record of a termination or confirmatory survey in the file. The 113 Astor Street location was the Englehard Industries, Inc. headquarters during the time period of this license. Also, noted in one of the associated licenses was information that radioactive materials had been transferred to a licensed waste contractor for burial at sea.

The Astor street and Murray Street facilities were labs that were setup to do precious metal recovery, forming and alloying. Also, it has been determined that the Astor street buildings were sold in 1984 have been torn down and replaced with new buildings which house the Kremenz & Co.. The Murray Street Buildings were demolished during the 1975 to 1977 time period and the building materials were subjected to precious metal recovery operations and the grounds were mined to an approximate depth of 27 feet before being back filled. There are other buildings on this site which house J. Cappriglione & Sons. Based on this information, the facility is suitable for unrestricted use.

Recommendations: None

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July 11, 1995

Summary: License No. C-03387 was issued October 12, 1956 for the possession and use of up to 500 pounds of refined source material in the form of uranium products for research and development on rolling, drawing, and fabricating metals and fuel elements, and processing, purification, and recovery procedures. The license also authorized possession and use of up to 20,000 pounds of refined source material in the form of scrap or contaminated metal for recovery of source material and 500 grams of normal refined uranium for use as spectrographic samples in the determination of product purity. The license was first issued to Baker and Company, Incorporated. An AEC inspection was conducted on June 6, 1957 for operations authorized by License Nos. R-00121 and C-03387. License No. R-00121 authorized the possession and use of up to 150 pounds of refined source material in the manufacture of platinum metal products containing thorium. The production of the platinum alloys consisted of mixing, heating the material in a furnace, grinding, and sieving. The inspection report stated that the licensee did not have radiological precautions or procedures in place, no personnel instruction regarding the handling of the material, no personnel monitoring, and no physical surveys because they only used 1 pound of thorium per week and the operations authorized under License No. C-03387 were not full scale at the time. The inspection report also stated that the licensee was conducting operations under an AEC contract to decontaminate platinum and platinum alloys (the primary contaminants being plutonium and polonium) in a separate 20 foot by 20 foot building. The inspection did not cover the decontamination activities. A letter dated December 27, 1957 indicated that Englehard Industries, Incorporated took over the operations. The letter also stated that 113 Astor Street, Newark, New Jersey was an office location and 149 Murray Street, Newark, New Jersey was the site of the licensee's special nuclear material facility. However, the license lists 113 Astor Street as the licensee's location. It is unclear which location was used under License No. C-03387. A noncompliance notice dated May 28, 1959 cited the licensee for using material at unauthorized locations. The license expired July 31, 1962. There is no record of a termination or confirmatory survey in the file. The materials disposition information consisted of a letter from the licensee dated March 22, 1957 that stated recovered source material would be returned to the licensee who required the source material recovery service and a letter from the licensee dated October 21, 1957 that stated 50 pounds of uranium was shipped to D.E. Makepeace Company; however, this information was not adequate to account for all material acquired.

Information was received from the Department Of energy that Englehard Industries, Inc. was removed from the FUSRAP program because the facilities used had been torn down and replaced with a new building and therefore was inaccessible for surveys.

On June 20, 1995, Inspectors J. Kinneman and J. Lusher met with T. Brown, Manager, Environmental Affairs, Englehard Industries, at 101 Wood Avenue, Iselin, New Jersey, and discussed the Englehard Industries retired licensees. Mr Brown informed the inspectors of the status of the properties and went with the inspectors to show where the properties were located.

The 113 Astor Street location was the Englehard Industries, Inc. headquarters during the time period of this license. The Astor street and Murray Street facilities were labs that were setup to do precious metal recovery, forming and alloying. Also, it has been determined that the Astor street buildings were sold in 1984 have been torn down and replaced with new buildings which house the Kremenz & Co.. The Murray Street Buildings were demolished during the 1975 to 1977 time period and the building materials were subjected to precious metal recovery operations and the grounds were mined to an approximate depth of 27 feet before being back filled. There are other buildings on this site which house J. Cappriglione & Sons. Based on this information, the facility is suitable for unrestricted use.

Reviewed by:

John H. Lusher

Date

11/27/96

Approved by:

Ronald L. Bellay

Date

11/27/96